Visualizing Datasets with Excel: Heatmaps, Radar Charts, and More

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Housekeeping

- Today's charts require Excel 2016 or later
- We will send data file and instructions following the session
- Please ask questions via the chat box
- Please mute your microphone
Learning outcomes

After today, you should be able to:

● Create the following visualizations in Excel
  ○ Heatmap
  ○ Box & whisker plot
  ○ Treemap
  ○ Radar chart
● Customize the visualizations
● Export your visualizations
Heatmap

- Individual values represented by color
- Uses color scale to show patterns in data
- Best options for color blind:
  - blue/orange
  - blue/red
  - blue/brown

https://www.r-graph-gallery.com/heatmap
Box & Whisker Plot

- Visually represent distribution of data
- Shows median, mean, upper and lower quartiles, outliers
- First available in Excel 2016

[Diagram of a box and whisker plot]

Treemap

- Can be used to visualize parts of a whole or hierarchical structures
- New option for Excel 2016

https://en.wikipedia.org/wiki/Treemapping
Radar Chart

- See similarities and outliers with multivariate data
- Shows values relative to a center point

https://en.wikipedia.org/wiki/Radar_chart